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(54) FINELY POROUS POLYOLEFIN FILM AND ITS PRODUCTION

(57)Abstract:

PURPOSE: To obtain a finely porous polyolefin film which contains a polyolefin of super-high molecular weight and comprises a polyolefin of a specific molecular weight and whose thermal shrinkages in the longitudinal and transverse directions are adjusted below a specific value and which is useful as a battery separator, a diaphragm for electrolysis condensers, etc.

CONSTITUTION: A polyolefin with a super-high molecular weight of $\geq 7\times 10^5$ weight-average molecular weight in an amount of ≥ 1wt.%, a polyolefin with a weight-average molecular weight/the number-average molecular weight ratio of 10-300 in an amount of 10-50wt.% and a solvent in an amount of 50-90wt.% are used to prepare a solution. Then, the solution is extruded from a die and cooled to give a molded product in the gel form. The gel product is drawn at a temperature ranging from -20°C as the melting point of the polyolefin to +10°C to remove the remaining solvent. Then, the product is heat set at a temperature ranging from +10°C of the crystalline dispersion temperature of the polyolefin to the melting point.

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